



SACRAMENTO - SAN JOAQUIN

DELTA CONSERVANCY

A California State Agency

DPIIC UPDATE ON RESTORATION AND RESTORATION PLANNING

campbell.ingram@deltaconservancy.ca.gov

- ❑ Act as a primary state agency to implement ecosystem restoration in the Delta, and
- ❑ Support efforts that advance environmental protection and the economic well-being of Delta residents

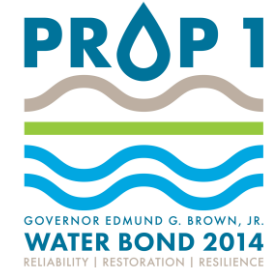


ECOSYSTEM RESTORATION



SACRAMENTO - SAN JOAQUIN
DELTA CONSERVANCY
A California State Agency

Ecosystem Restoration Contributions



Proposition 1 Grant Program

The program focuses on ecosystem restoration and water quality improvements.

19 projects

\$24 million awarded

Cycle 4 grants will be awarded May 2019. 11 proposals, \$16 million requested.








Arundo Control and Restoration Program

The program maps and prioritizes areas of Arundo infestation, then works to control Arundo and restore native habitat.

3 projects

\$1 million awarded

RESTORATION BY HABITAT (IN ACRES):

	Implementation Projects	Planning Projects
 tidal/subtidal wetlands	433	0
 non-tidal wetlands	125	0
 managed wetlands	1540	1758
 open water habitat	115	2
 riparian habitat	232	316
 upland habitat	66	0
 floodplain habitat	150	2217

California EcoRestore has a stated goal of advancing 5,000 acres of habitat enhancements throughout the Delta supported by Proposition 1 grants. Projects funded by the Delta Conservancy's Proposition 1 Grants Program may be counted toward this acreage goal.

ADDITIONAL BENEFITS (IN ACRES):

	Implementation Projects	Planning Projects
multi-benefit flood management	2358	2645
agricultural protection and enhancement	1222	2000

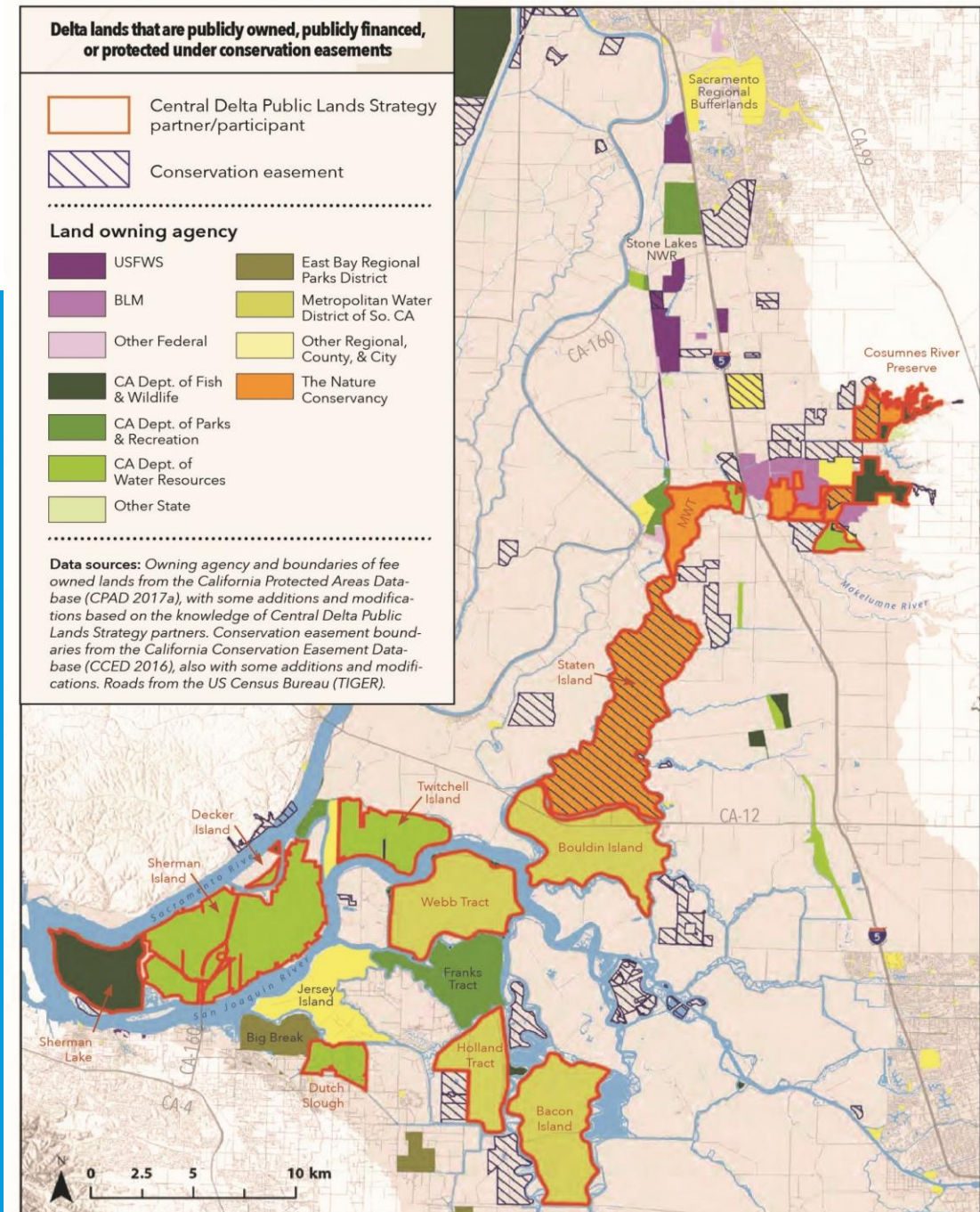
Projects may provide multiple benefits within the same footprint. Some of the acres tracked in the tables above are accounted for in more than one column.

Sacramento-San Joaquin Delta Conservancy

1450 Halyard Drive, Suite 6, West Sacramento, CA, 95691 | 916.375.2084 | deltaconservancy.ca.gov

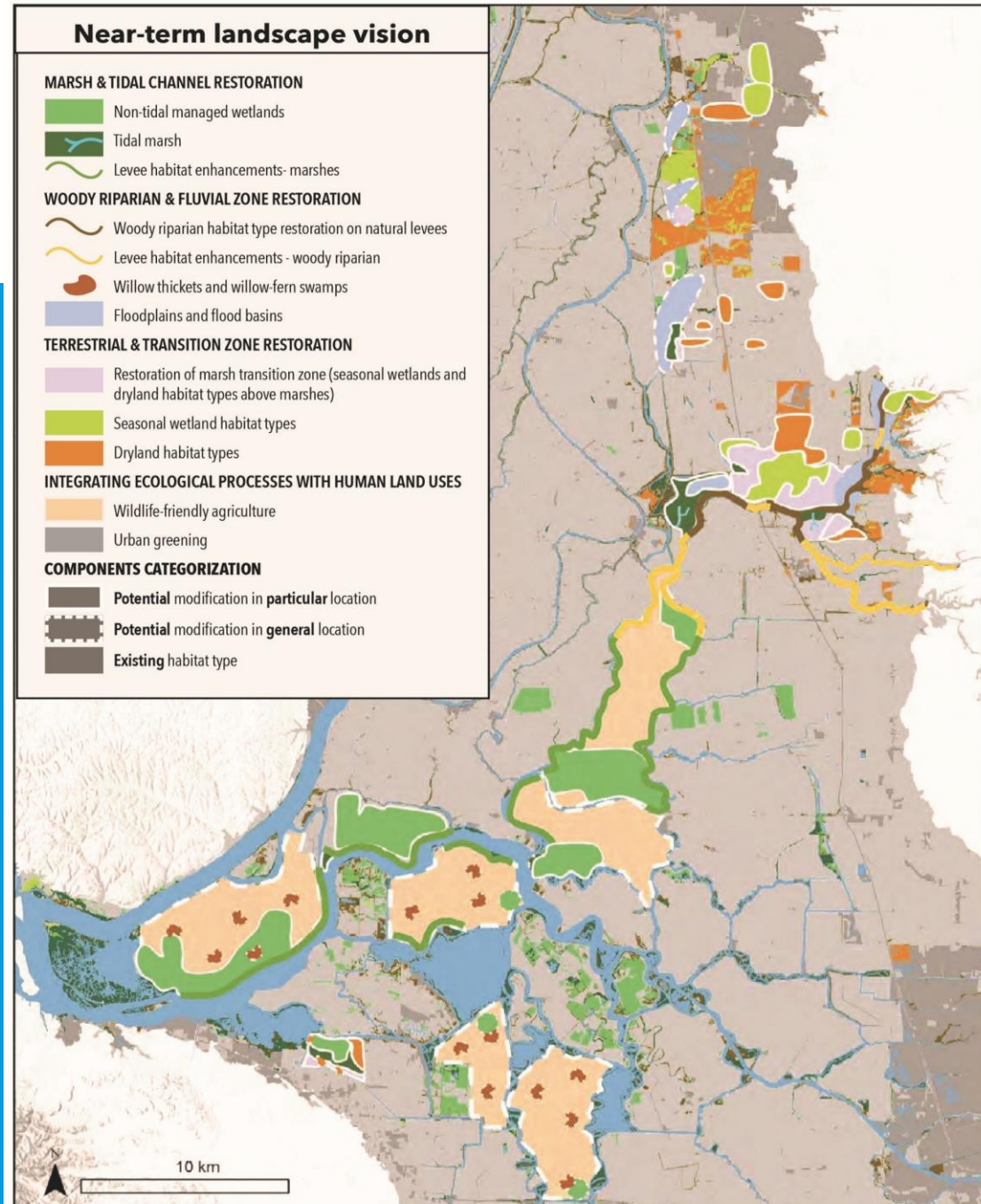
DELTA PUBLIC LANDS STRATEGY

- High level guidance for public land owners on restoration opportunities and constraints
- Excellent participation from land owners (public and private), reclamation district engineers, agency and NGO partners
- Supported by the San Francisco Estuary Institute (Delta Renewed) and the Catalyst Group

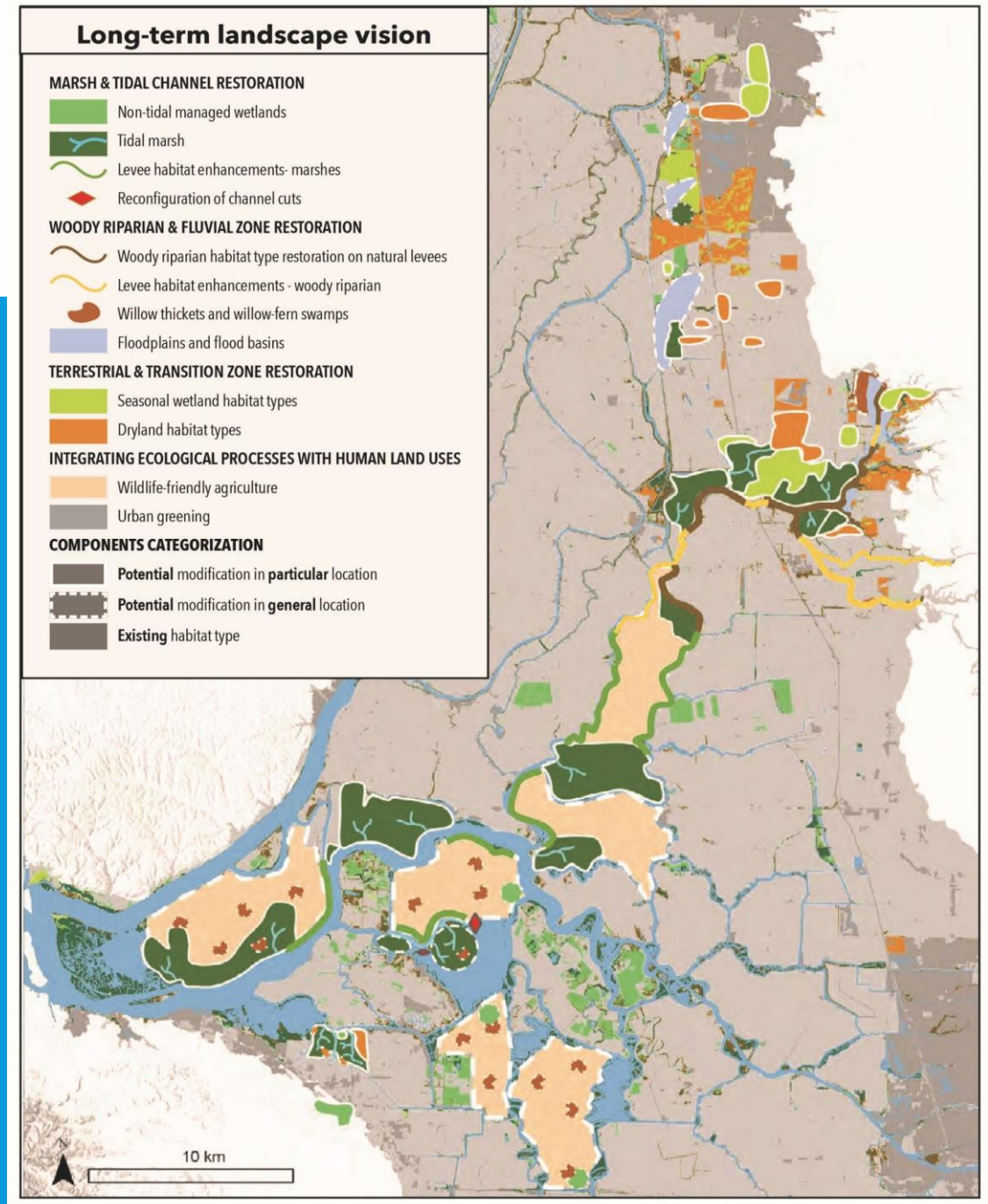


DELTA PUBLIC LANDS STRATEGY

- Protect and enhance desired ecological function
- Stop and reverse subsidence
- Reduce flood risk
- Demonstrate opportunities to increase agriculture sustainability
- Protect and enhance Delta water quality and supply
- Support and improve recreation opportunities



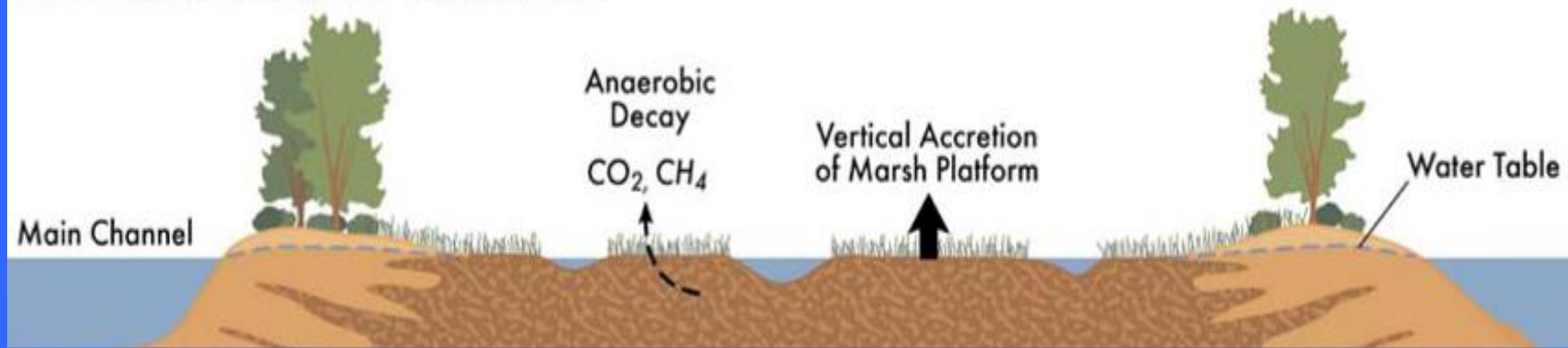
DELTA PUBLIC LANDS STRATEGY



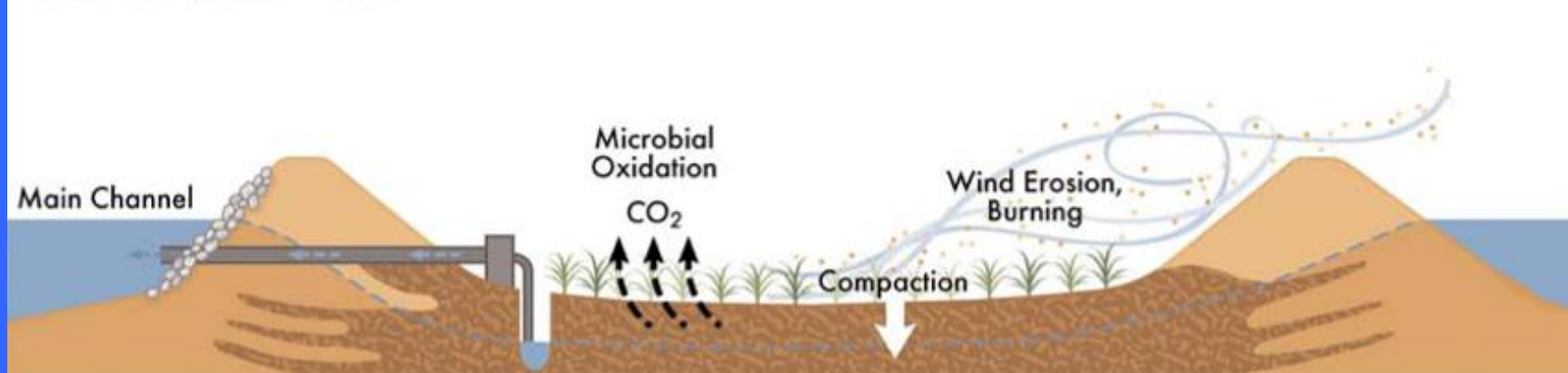
SUBSIDENCE PROCESS



Pre-1880: Freshwater Tidal Marsh



1900's: Elevation Loss



CARBON EMISSIONS QUANTIFIED

- 3 to over 20 metric tons of CO₂ per acre per year
- ~2,000,000 metric tons of CO₂ per year, Delta total
- ~500,000 vehicle equivalent
- Between 1/4 to 1/3 of CA's total plant based agriculture carbon emissions
- Natural and Working Lands Strategy, over 12 years, - 53 MMT – Delta +26 MMT

GREENHOUSE GAS EMISSIONS REDUCTIONS

- ACR Methodology approved in April 2017
- Working with public and private land owners to develop pilot projects
- Working with carbon financiers and investors to market resulting carbon credits
- Seeking funds to support project construction
- Ongoing discussions with ARB for eventual inclusion in the compliance program

POTENTIAL INCOME

Estimated Annual Income per Acre	Voluntary	Compliance Base Case	Compliance High Case
Offsets generated	15	15	15
Held in buffer account	<u>(4)</u>	<u>(4)</u>	<u>(4)</u>
Offsets for sale	11	11	11
Sale price (\$/offset)	\$7.00	\$19.00	\$30.00
Gross revenue per acre	\$77	\$209	\$330
Verification & registration costs	<u>-\$18</u>	<u>-\$26</u>	<u>-\$26</u>
Net revenue per acre	\$59	\$183	\$304